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Telephone: (703) 756-8000 MAY 17 2010

Application Number

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10/085,786

2/28/02

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US006849740B2

(12) **United States Patent**
Ledoussal et al.

(10) Patent No.: **US 6,849,740 B2**
(45) Date of Patent: ***Feb. 1, 2005**

(54) **ANTIMICROBIAL QUINOLONES, THEIR COMPOSITIONS AND USES**

(75) Inventors: **Benoit Ledoussal**, Mason, OH (US); **Ji-In Kim Almstead**, Holmdel, NJ (US); **Jeffrey Lyle Gray**, Loveland, OH (US)

(73) Assignee: **The Procter & Gamble Company**, Cincinnati, OH (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **10/392,476**

(22) Filed: **Mar. 18, 2003**

(65) **Prior Publication Data**

US 2003/0207862 A1 Nov. 6, 2003

Related U.S. Application Data

(63) Continuation of application No. 10/085,786, filed on Feb. 28, 2002, now abandoned, which is a continuation of application No. 09/29,943, filed on Aug. 15, 2001, now Pat. No. 6,387,928, which is a continuation-in-part of application No. 09/266,197, filed on Mar. 10, 1999, now Pat. No. 6,329,391, which is a continuation-in-part of application No. 09/139,859, filed on Aug. 25, 1998, now abandoned.

(60) Provisional application No. 60/058,891, filed on Sep. 15, 1997.

(51) Int. Cl.⁷ **A61K 31/47; C07D 215/16**

(52) U.S. Cl. **546/156; 514/312**

(58) Field of Search **546/156; 514/312**

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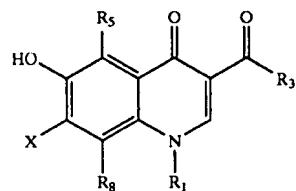
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Primary Examiner—D. Margaret Seaman

(74) Attorney, Agent, or Firm—Andrew A. Paul; David V. Upite; Mary Pat McMahon

(57) **ABSTRACT**

Compounds having the general structure



which are effective antimicrobial agents.

19 Claims, No Drawings